SWP Weekly Water Quality Summary

November 4 to 11, 2009

Electrical Conductivity: Concentrations increased at Harvey O. Banks Pumping Plant (HBP), Check 41, Barker Slough, and Vallecitos, but decreased at Devil Canyon, from November 4 to 11, 2009. Concentrations ranged from 253 µS/cm to 540 µS/cm (158 mg/L to 324 mg/L), below the Article 19 Monthly Average Objective of 440 mg/L (733 µS/cm). As of November 11, the lowest concentration of 277 µS/cm occurred at Barker Slough while the highest concentration of 517 µS/cm occurred at Devil Canyon. EC concentrations at HBP increased slightly from 408 µS/cm to 426 µS/cm as of November 11, 2009.

Bromide: Concentrations exceeded the California Bay Delta Authority (CBDA) Objective of 0.05 mg/L at all locations. Concentrations ranged from 0.08 mg/L to 0.27 mg/L. As of November 11, Barker Slough had the lowest concentration of 0.09 mg/L, while the highest concentration of 0.25 mg/L occurred at Devil Canyon. Concentrations at HBP increased slightly from 0.17 mg/L to 0.18 mg/L this week. Bromide concentrations are calculated values using linear regression equations using EC concentrations and are not as accurate as bromide concentrations from laboratory analysis.

Turbidity: From November 4 to 11, turbidity levels decreased at HBP, Devil Canyon and Barkers Slough, but increased at Check 41 and Vallecitos. Turbidity levels ranged from 1.3 NTU to 74.7 NTU during the week. As of November 11, 2009, the lowest level of 1.3 NTU occurred at Devil Canyon while the highest level of 61.1 NTU occurred at Barker Slough. As of November 11, the levels at HBP decreased from 10.7 NTU to 6.2 NTU.

Dissolved Organic Carbon (DOC): Concentrations increased from 2.2 mg/L to 2.4 mg/L at HBP and from 2.7 mg/L to 2.9 mg/L at Check 13. Concentrations decreased from 4.8 mg/L to 4.3 mg/L at Edmonston as of November 11, 2009.

Taste and Odor Compounds: MIB and geosmin concentrations were low project wide ranging from ND to 7 ng/L at Clifton Court, HBP, O'Neill Outlet, Check 66, Del Valle Check 7, Pacheco Pumping Plant Outlet and Silverwood Lake as of November 9, 2009.

Ground water pump-ins to the California Aqueduct from November 4 to 11, 2009 totaled 20,432 AF. The break down of the total volume was:

- Arvin Edison Water Storage District = 3,241 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 5,633 AF
- Kern County Water Agency (who operate the Cross Valley Canal) = 8,888 AF
- Semitropic (2&3) Water Storage District = 2,670 AF.
- Wheeler Ridge Maricopa Water Storage District = 0 AF.

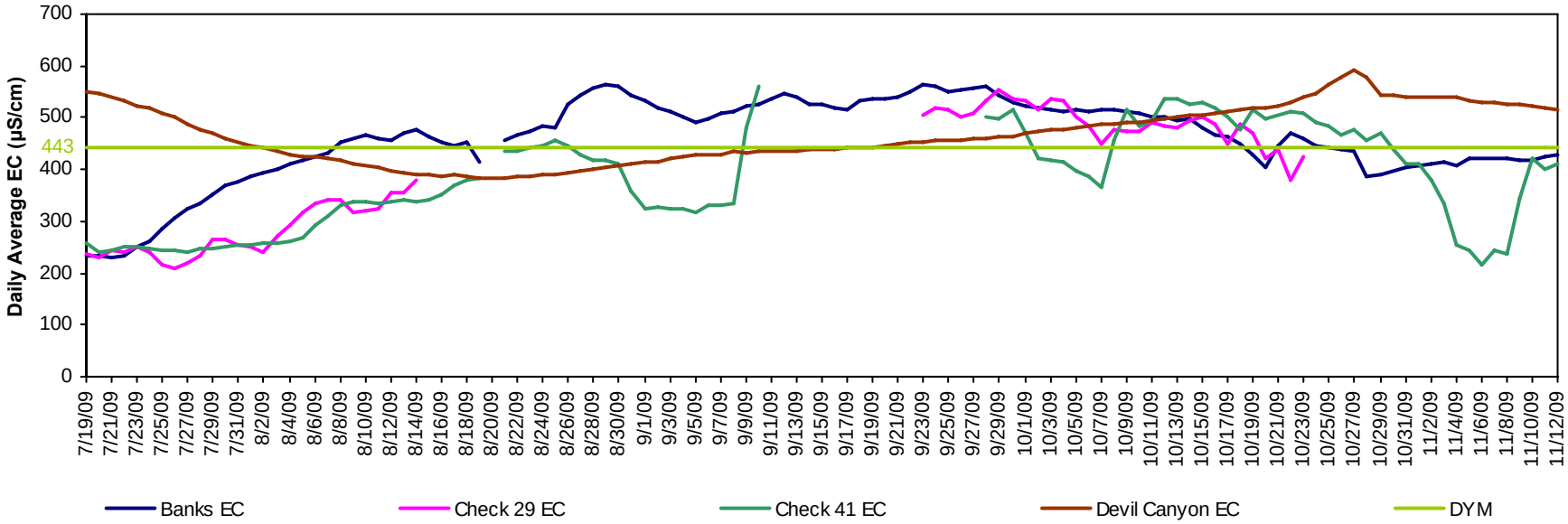
As of October 21, 2009, no data were available for Check 29 due to malfunctioning Turbidity instrument and the water quality station upgrades currently underway.

The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP).

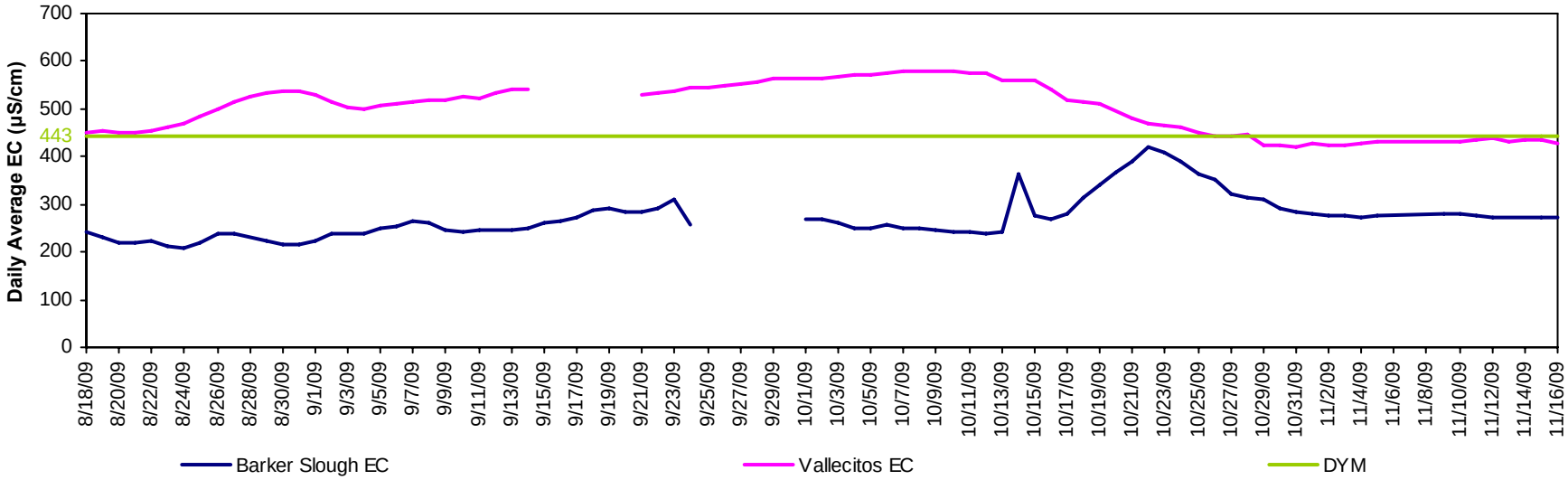
Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke @ 916-653-7227. To view WQ data from the automated stations along the SWP, visit: http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmondston's daily AF pumping data, visit: www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

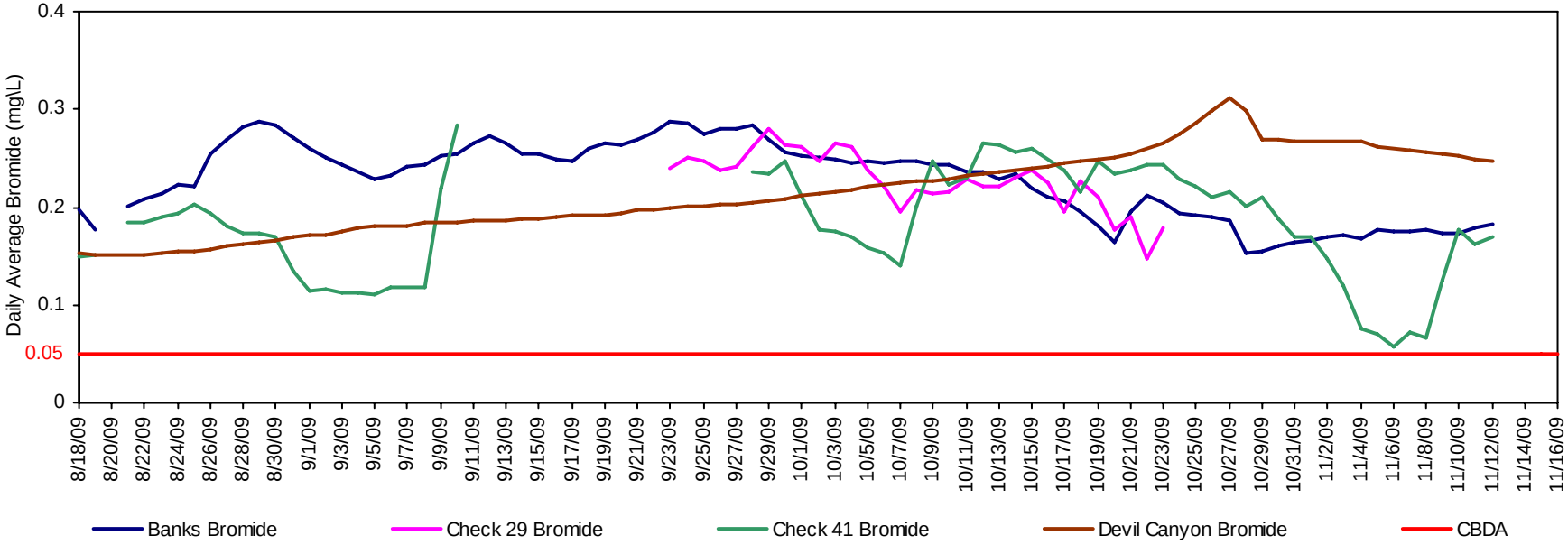
California Aqueduct - Electrical Conductivity



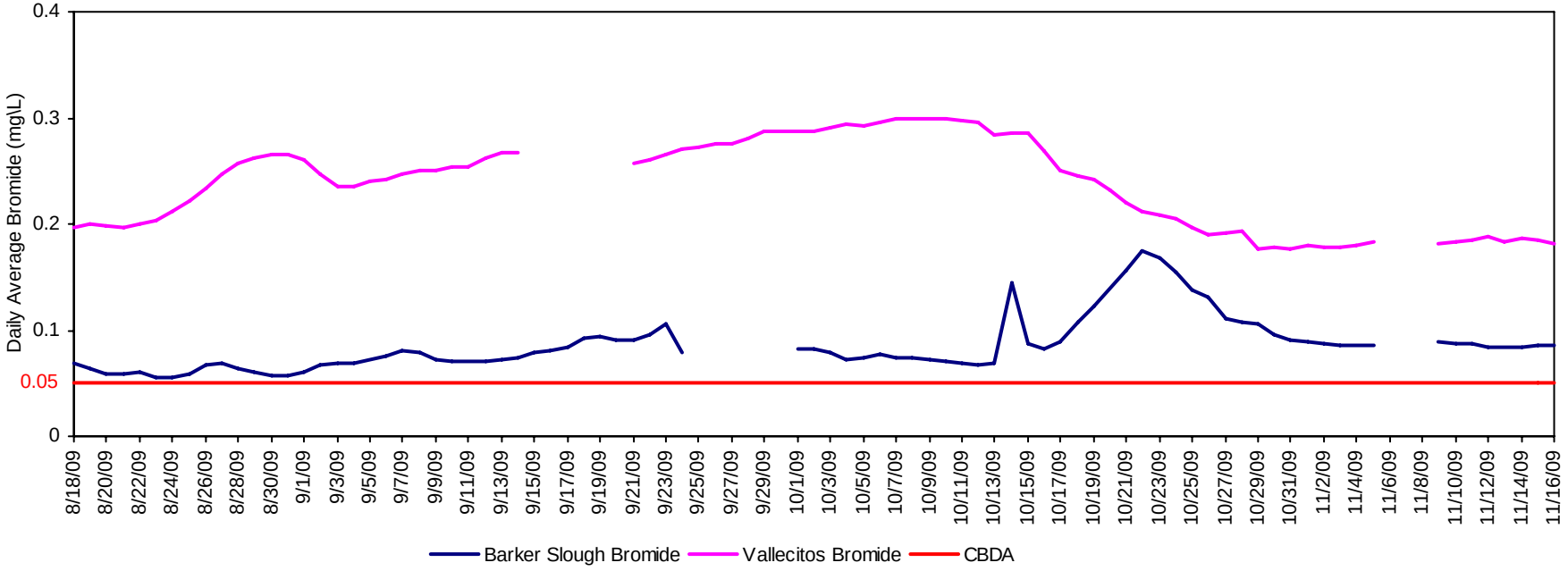
North and South Bay Aqueduct - Electrical Conductivity



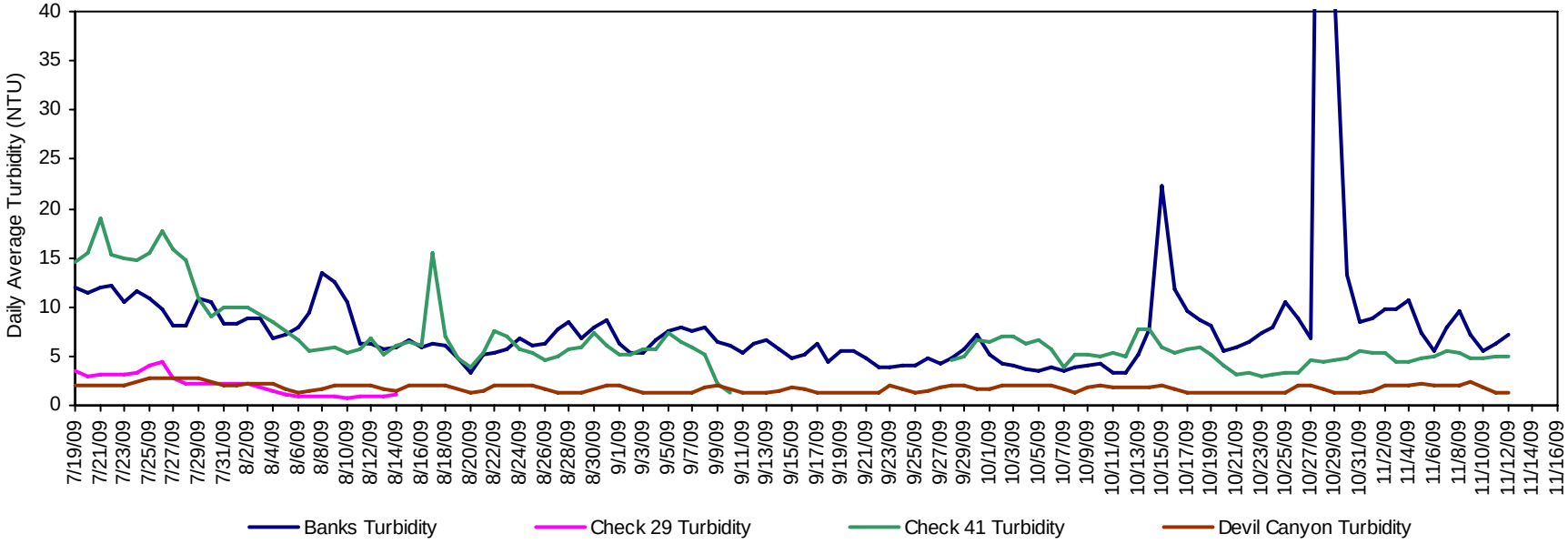
California Aqueduct - Calculated Bromide



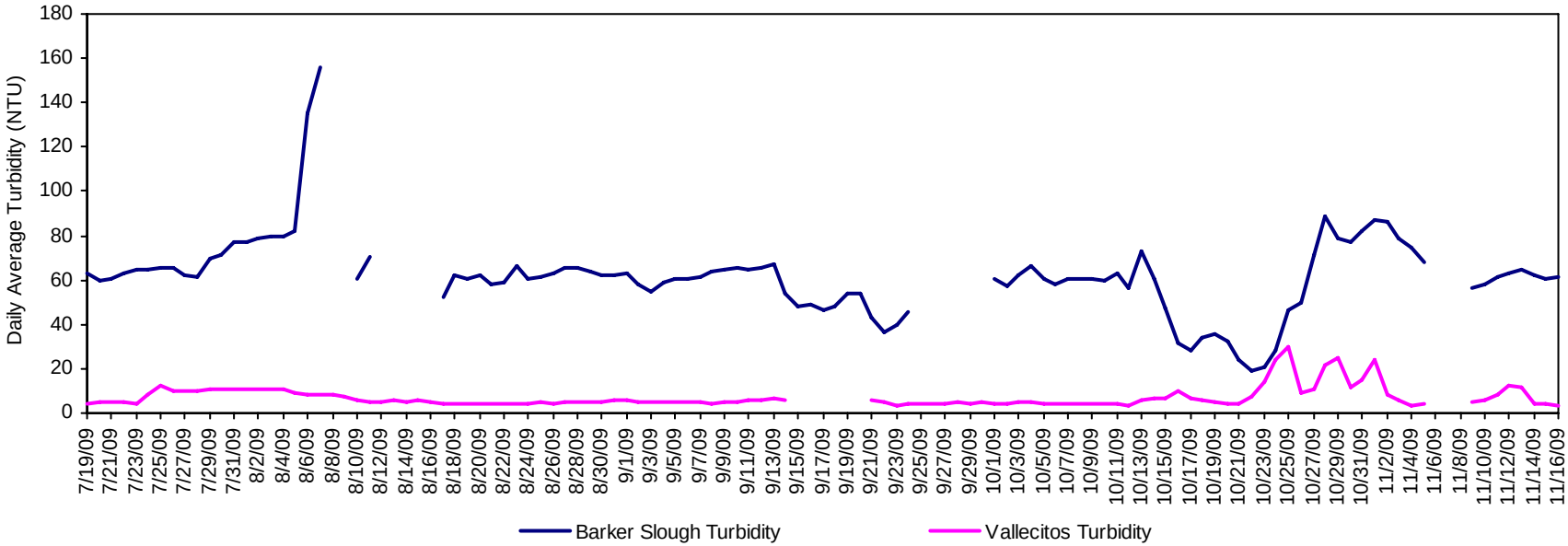
North and South Bay Aqueduct - Calculated Bromide

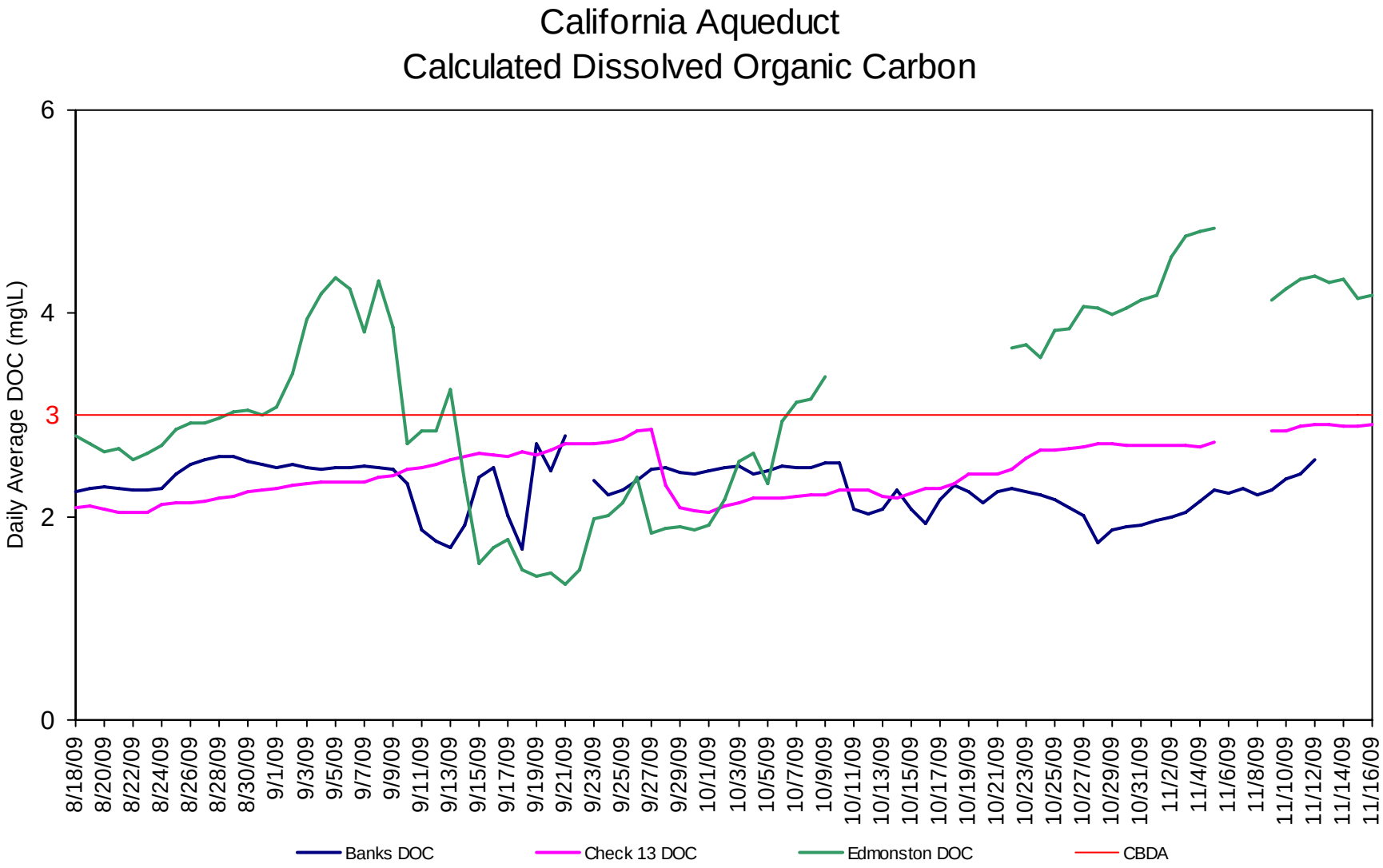


California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity




California Aqueduct
Calculated Dissolved Organic Carbon
Daily Average DOC (mg\L)
6
4
3
2
0
8/18/09
8/20/09
8/22/09
8/24/09
8/26/09
8/28/09
8/30/09
9/1/09
9/3/09
9/5/09
9/7/09
9/9/09
9/11/09
9/13/09
9/15/09
9/17/09
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10/15/09
10/17/09
10/19/09
10/21/09
10/23/09
10/25/09
10/27/09
10/29/09
10/31/09
11/2/09
11/4/09
11/6/09
11/8/09
11/10/09
11/12/09
11/14/09
11/16/09
Banks DOC
Check 13 DOC
Edmonston DOC
CBDA